

Study checklist

Participant or P

Preliminary

- ☐ Ask P if they wear glasses
- ☐ Read study description
- ☐ Fill & return consent form
- ☐ Warn of epilepsy, dizziness, etc
- ☐ Ask for ID and Group
- ☐ Please follow instructions

Interaction

Training

- ☐ Start program for group-specific visualization or Viz
- ☐ Select the corresponding group:
 - HMD-Pyr
 - DT-Pyr
 - HMD-Liv
 - HMD-Liv
- ☐ Ask P for their ID
- ☐ Ask P to start when the start button is shown
- ☐ Tell P that the viewing is next and a break is possible, if necessary

Viewing

- ☐ Ask P to start group-specific viz ONLY if they don't need a break and are ready
- ☐ Tell P that the target is the sphere

Task 1

Link to Multiple Choice Test or MCT:
bit.ly/studytask1

Train 1

- ☐ Start MCT
- ☐ Answer questions:
 - Question Q1: yellow (gelb)
 - Pyramid Q2: 3 (drei)
 - Liver Q2: 3 (drei)
- ☐ Remind of strategy to rate confidence level after giving each answer
- ☐ Confidence level: 10 is very sure and 0 not sure at all

Test 1

- ☐ Do not give answers
- ☐ Tell P that multiple answers are acceptable
- ☐ Be sure P clicks submit

Task 2

- ☐ Tell P to be patient while you prepare for next step
- ☐ Move to the 3D printed model.
- ☐ Tell P about the pointer and each sticker on the model or each Point of Entry or PoE
- ☐ Please record 1 measure per PoE
- ☐ ROM model files:
 - 339: Pyramid
 - 449: Liver
 - 340: Pointer

Train 2

- ☐ Input P ID and hit Start
- ☐ Select train group: condition-model-**Train**, e.g. DT-Liv-Train
- ☐ Give pointer
- ☐ Position P in front of model
- ☐ Ask P to point to the sphere by using the pointer tool from the three lowest stickers
- ☐ Ask P to use the word OK when they are ready for you to record a measure
- ☐ Tell P that the target is the sphere
- ☐ Record only **3** measures
- ☐ Tell P if pointer/model is occluded and tell them to reconsider strategy

Test 2

- ☐ Select test group: condition-model-**Test**, e.g. DT-Liv-Test
- ☐ Ask P to step back
- ☐ Move to model and ask P to restart pointing from the first PoE from left to right
- ☐ Tell P that the target is the sphere
- ☐ Record **10** measures
- ☐ Tell P if pointer/model is occluded

Post-hoc questionnaire

- ☐ bit.ly/postquestion
- ☐ Be sure P clicks submit